Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (original) A method of communicating data streams, the method comprising:

- a. packetizing one or more data streams into isochronous data packets;
- b. encapsulating one or more isochronous data packets according to a real-time transport protocol to form a real-time transport protocol data packet; and
- c. sending the real-time transport protocol data packets from a transmitting device to a receiving device over a non-isochronous compliant network.
- 2. (original) The method of claim 1 wherein the transmitting device is coupled to a first isochronous compliant network and the receiving device is coupled to a second isochronous compliant network.
- 3. (original) The method of claim 2 wherein the first isochronous compliant network and the second isochronous compliant network each comprise an IEEE 1394 compliant bus architecture.
- 4. (original) The method of claim 3 wherein the first isochronous compliant network and the second isochronous compliant network are coupled via the non-isochronous compliant network.
- 5. (original) The method of claim 4 wherein the non-isochronous compliant network comprises an Internet Protocol network.
- 6. (original) The method of claim 5 wherein the Internet Protocol network comprises an Ethernet/Internet Protocol network.
- 7. (currently amended) The method of claim 2 further comprising generating a cycle record for each isochronous cycle of the first isochronous compliant network, wherein each cycle record includes a relative timing marker that indicates a timing of the real-time transport protocol data packet relative to the a cycle master of the first isochronous compliant network.

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8. (original) The method of claim 1 wherein the real-time transport protocol defines a real-time transport protocol header and a real-time transport protocol data payload for each real-time transport protocol data packet.

- 9. (original) The method of claim 8 wherein the real-time transport protocol data payload comprises one or more isochronous cycle records.
- 10. (original) The method of claim 9 wherein each of the one or more isochronous cycle records comprises zero or more isochronous data packets.
- 11. (original) The method of claim 10 wherein each isochronous data packet comprises an IEEE 1394 isochronous data packet.
- 12. (original) The method of claim 11 wherein each IEEE 1394 isochronous data packet includes an IEEE 1394 data payload formatted according to an IEC 61883-1 compliant Common Isochronous Protocol (CIP).
- 13. (original) The method of claim 8 wherein the real-time transport protocol header includes a timestamp, the timestamp is defined by a value of the isochronous cycle start transaction corresponding to the receipt of a first isochronous data packet included in a particular real-time transport protocol data packet.
- 14. (original) The method of claim 1 wherein each real-time transport protocol data packet includes at least a portion of an isochronous cycle record.
- 15. (original) An apparatus for communicating data streams, the apparatus comprising:
 - a. means for packetizing one or more data streams into isochronous data packets;
 - b. means for encapsulating one or more isochronous data packets according to a real-time transport protocol to form a real-time transport protocol data packet; and
 - c. means for sending the real-time transport protocol data packets from a transmitting device to a receiving device over a non-isochronous compliant network.

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16. (original) The apparatus of claim 15 wherein the transmitting device is coupled to a first isochronous compliant network and the receiving device is coupled to a second isochronous compliant network.

- 17. (original) The apparatus of claim 16 wherein the first isochronous compliant network and the second isochronous compliant network each comprise an IEEE 1394 compliant bus architecture.
- 18. (original) The apparatus of claim 17 wherein the first isochronous compliant network and the second isochronous compliant network are coupled via the non-isochronous compliant network.
- 19. (original) The apparatus of claim 18 wherein the non-isochronous compliant network comprises an Internet Protocol network.
- 20. (original) The apparatus of claim 19 wherein the Internet Protocol network comprises an Ethernet/Internet Protocol network.
- 21. (currently amended) The apparatus of claim 16 further comprising means for generating a cycle record for each isochronous cycle of the first isochronous compliant network, wherein each cycle record includes a relative timing marker that indicates a timing of the real-time transport protocol data packet relative to the a cycle master of the first isochronous compliant network.
- 22. (original) The apparatus of claim 15 wherein the real-time transport protocol defines a real-time transport protocol header and a real-time transport protocol data payload for each real-time transport protocol data packet.
- 23. (currently amended) The apparatus of claim 23 22 wherein the real-time transport protocol data payload comprises one or more isochronous cycle records.
- 24. (original) The apparatus of claim 23 wherein each of the one or more isochronous cycle records comprises zero or more isochronous data packets.

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25. (original) The apparatus of claim 24 wherein each isochronous data packet comprises an IEEE 1394 isochronous data packet.

- 26. (original) The apparatus of claim 25 wherein each IEEE 1394 isochronous data packet includes an IEEE 1394 data payload formatted according to an IEC 61883-1 compliant Common Isochronous Protocol (CIP).
- 27. (original) The apparatus of claim 22 wherein the real-time transport protocol header includes a timestamp, the timestamp is defined by a value of the isochronous cycle start transaction corresponding to the receipt of a first isochronous data packet included in a particular real-time transport protocol data packet.
- 28. (original) The apparatus of claim 22 wherein each real-time transport protocol data packet includes at least a portion of an isochronous cycle record.
- 29. (original) An apparatus to communicate data streams, the apparatus comprising:
 - a. a transmitting circuit configured to encapsulate one or more first isochronous data packets according to a real-time transport protocol, thereby forming a first real-time transport protocol data packet, and to transmit the first real-time transport protocol data packets over a non-isochronous compliant network; and
 - b. a receiving circuit configured to receive a second real-time transport protocol data packet from the non-isochronous compliant network, and to de-encapsulate the received second real-time transport protocol data packets into one or more second isochronous data packets.
- 30. (original) The apparatus of claim 29 wherein the transmitting circuit and the receiving circuit are each coupled to an isochronous compliant network.
- 31. (original) The apparatus of claim 30 wherein the isochronous compliant network comprises an IEEE 1394 compliant bus architecture.
- 32. (original) The apparatus of claim 29 wherein the real-time transport protocol defines a real-time transport protocol header and a real-time transport protocol data payload for each real-time transport protocol data packet.

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33. (original) The apparatus of claim 32 wherein the real-time transport protocol data payload comprises one or more isochronous cycle records.

- 34. (original) The apparatus of claim 31 wherein each of the one or more isochronous cycle records comprises zero or more isochronous data packets.
- 35. (original) The apparatus of claim 33 wherein each isochronous data packet comprises an IEEE 1394 isochronous data packet.
- 36. (original) The apparatus of claim 35 wherein each IEEE 1394 isochronous data packet includes an IEEE 1394 data payload formatted according to an IEC 61883-1 compliant Common Isochronous Protocol (CIP).
- 37. (original) The apparatus of claim 32 wherein the real-time transport protocol header includes a timestamp, the timestamp is defined by a value of the isochronous cycle start transaction corresponding to the receipt of a first isochronous data packet included in a particular real-time transport protocol data packet.
- 38. (original) The apparatus of claim 29 wherein the transmitting circuit is further configured to packetize one or more data streams into the one or more isochronous data packets.
- 39. (original) The apparatus of claim 29 wherein the transmitting circuit is further configured to receive the one or more isochronous data packets from another device.
- 40. (original) The apparatus of claim 29 wherein the receiving circuit is further configured to parse the one or more isochronous data packets from each received real-time transport protocol data packet.
- 41. (original) The apparatus of claim 40 wherein each received real-time transport protocol data packet includes at least a portion of an isochronous cycle record.
- 42. (original) The apparatus of claim 41 wherein each isochronous cycle record comprises zero or more isochronous data packets.

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43. (original) A network of devices to communicate data streams, the network of devices comprising:

- a. a transmitting device configured to encapsulate one or more isochronous data packets according to a real-time transport protocol, thereby forming a real-time transport protocol data packet, and to transmit the real-time transport protocol data packets;
- b. a first isochronous compliant network coupled to the transmitting device;
- c. a receiving device configured to receive the real-time transport protocol data packets;
- d. a second isochronous compliant network coupled to the receiving device; and
- e. a non-isochronous compliant network coupled to the first isochronous compliant network and the second isochronous compliant network to transmit the real-time transport protocol data packets from the transmitting device to the receiving device.
- 44. (original) The network of devices of claim 43 wherein the first isochronous compliant network and the second isochronous compliant network each comprise an IEEE 1394 compliant bus architecture.
- 45. (original) The network of devices of claim 43 wherein the non-isochronous compliant network comprises an Internet Protocol network.
- 46. (original) The network of devices of claim 45 wherein the Internet Protocol network comprises an Ethernet/Internet Protocol network.
- 47. (original) The network of devices of claim 43 wherein the real-time transport protocol defines a real-time transport protocol header and a real-time transport protocol data payload for each real-time transport protocol data packet.
- 48. (original) The network of devices of claim 47 wherein the real-time transport protocol data payload comprises one or more isochronous cycle records.
- 49. (original) The network of devices of claim 48 wherein each of the one or more isochronous cycle records comprises zero or more isochronous data packets.

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50. (original) The network of devices of claim 48 wherein each isochronous data packet comprises an IEEE 1394 isochronous data packet.

- 51. (original) The network of devices of claim 50 wherein each IEEE 1394 isochronous data packet includes an IEEE 1394 data payload formatted according to an IEC 61883-1 compliant Common Isochronous Protocol (CIP).
- 52. (original) The network of devices of claim 47 wherein the real-time transport protocol header includes a timestamp, the timestamp is defined by a value of the isochronous cycle start transaction corresponding to the receipt of a first isochronous data packet included in a particular real-time transport protocol data packet.
- 53. (original) The network of devices of claim 43 wherein the transmitting device is further configured to packetize one or more data streams into the one or more isochronous data packets.
- 54. (original) The network of devices of claim 43 wherein the transmitting device is further configured to receive the one or more isochronous data packets from another device.
- 55. (original) The network of devices of claim 43 wherein the receiving device is further configured to parse the one or more isochronous data packets from each received real-time transport protocol data packet.
- 56. (original) The network of devices of claim 55 wherein each received real-time transport protocol data packet includes at least a portion of an isochronous cycle record.
- 57. (original) The network of devices of claim 56 wherein each isochronous cycle record comprises zero or more isochronous data packets.
- 58. (original) A method of communicating data streams, the method comprising:

 a. packetizing one or more data streams into IEEE 1394 compliant isochronous data packets;

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b. encapsulating one or more IEEE 1394 compliant isochronous data packets according to a real-time transport protocol to form a real-time transport protocol data packet; and

- c. sending the real-time transport protocol data packets from a transmitting device to a receiving device over a non-isochronous compliant network.
- 59. (original) The method of claim 58 wherein the transmitting device is coupled to a first IEEE 1394 compliant bus architecture and the receiving device is coupled to a second IEEE 1394 compliant bus architecture.
- 60. (original) The method of claim 59 wherein the non-isochronous compliant network comprises an Internet Protocol network.
- 61. (original) The method of claim 60 wherein the Internet Protocol network comprises an Ethernet/Internet Protocol network.
- 62. (currently amended) The method of claim 59 further comprising generating a cycle record for each isochronous cycle of the first IEEE 1394 compliant bus architecture, wherein each cycle record includes a relative timing marker that indicates a timing of the real-time transport protocol data packet relative to the a cycle master of the first IEEE 1394 compliant bus architecture.
- 63. (original) The method of claim 58 wherein the real-time transport protocol defines a real-time transport protocol header and a real-time transport protocol data payload for each real-time transport protocol data packet.
- 64. (original) The method of claim 63 wherein the real-time transport protocol data payload comprises one or more 1394 compliant isochronous cycle records.
- 65. (original) The method of claim 64 wherein each of the one or more isochronous cycle records comprises zero or more isochronous data packets.

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66. (original) The method of claim 65 wherein each IEEE 1394 isochronous data packet includes an IEEE 1394 data payload formatted according to an IEC 61883-1 compliant Common Isochronous Protocol (CIP).

- 67. (original) The method of claim 58 wherein the real-time transport protocol header includes a timestamp, the timestamp is defined by a value of the isochronous cycle start transaction corresponding to the receipt of a first 1394 compliant isochronous data packet included in a particular real-time transport protocol data packet.
- 68. (original) The method of claim 58 further comprising parsing the one or more IEEE 1394 compliant isochronous data packets from each real-time transport protocol data packet received by the receiving device.
- 69. (original) The method of claim 58 wherein each real-time transport protocol data packet includes at least a portion of an isochronous cycle record.